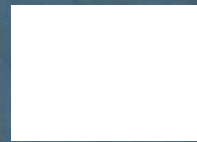


# Rounding to the Nearest 10 000



# Learning Intention

- To round to the nearest 10 000.

Which ten thousand is the following number between?

33 804



Which ten thousand is the following number between?

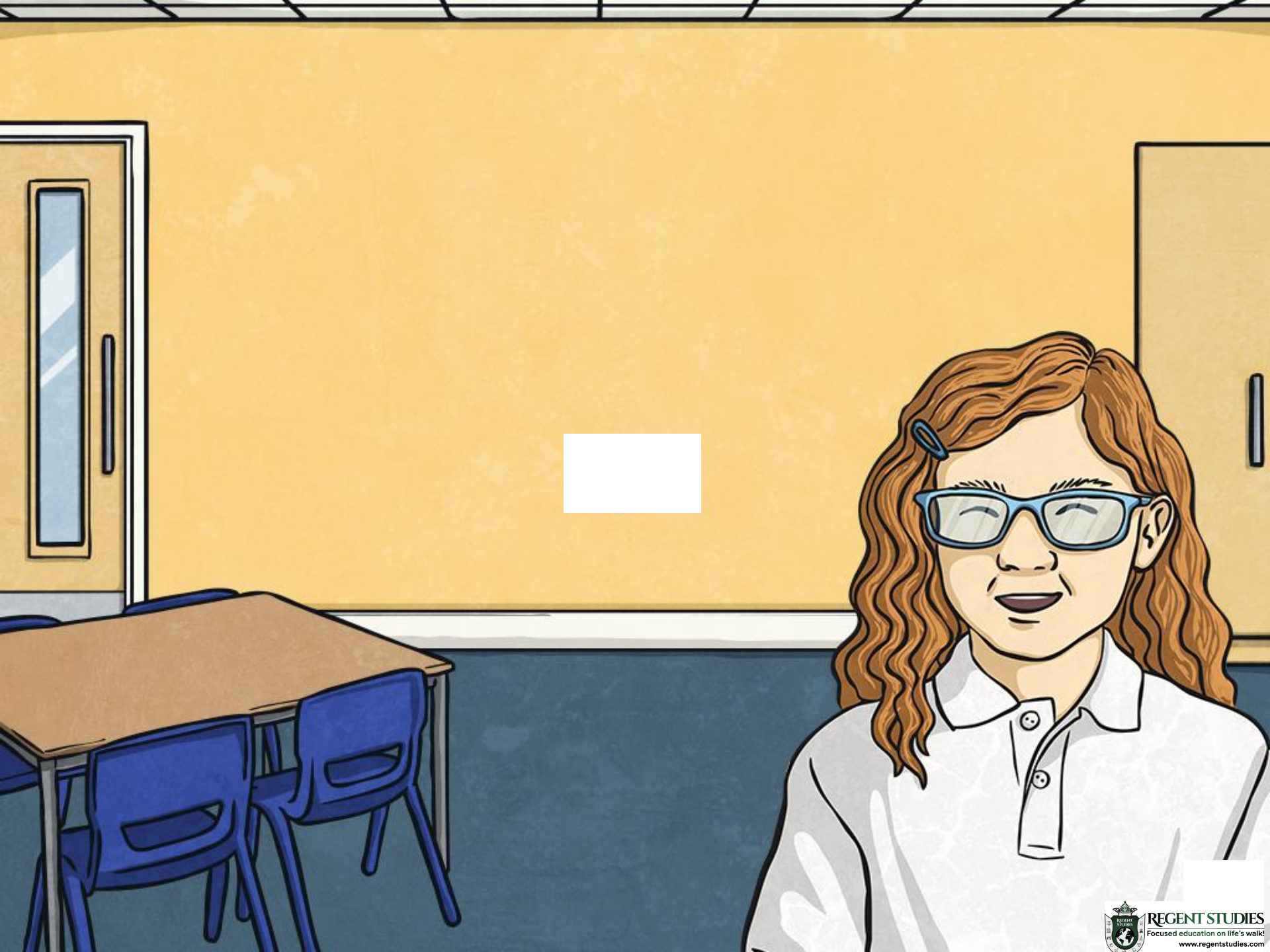
275 938



Which ten thousand is the following number between?

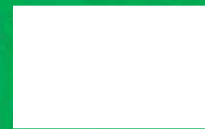
695 200





[White rectangular box]

# Rounding to the Nearest 100 000



# Learning Intention

- To round to the nearest 100 000.



Which hundred thousand is the following number between?

497 813



Which hundred thousand is the following number between?

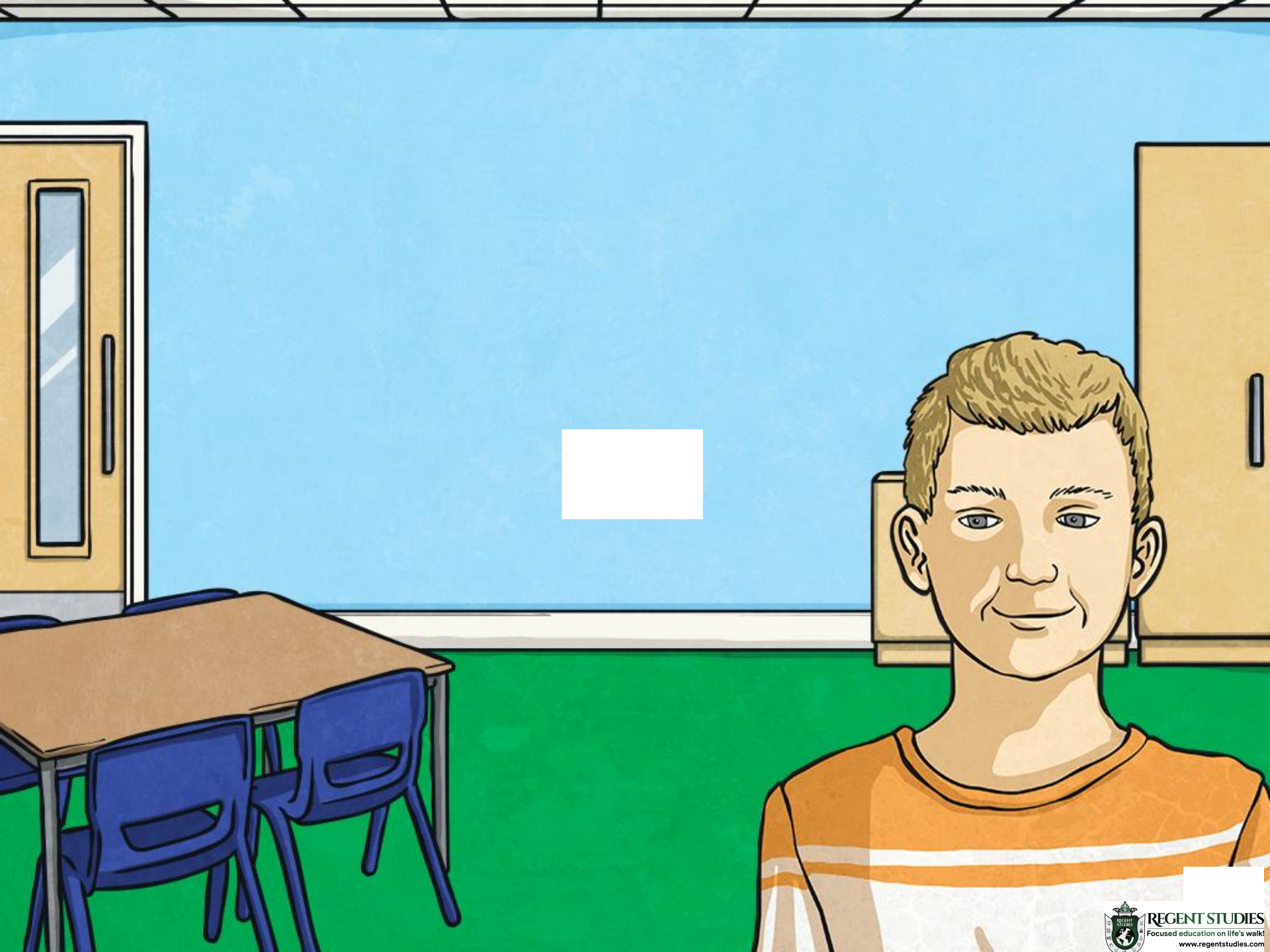
753 920



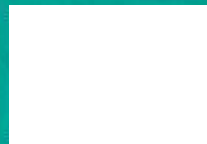
Which hundred thousand is the following number between?

967 210





# Rounding: Word Problems



# Learning Intention

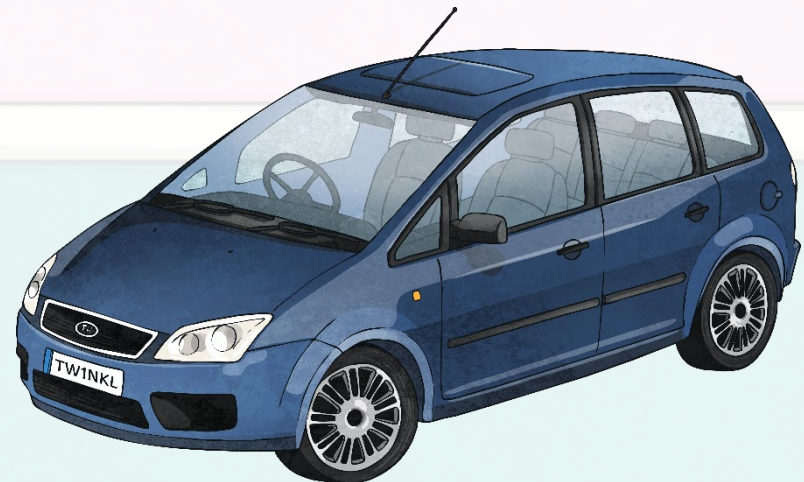
- To solve word problems.

A business woman travels 255 572km in a car in a year.  
How far does she travel to the nearest 10 000km and nearest 100 000km?

255 572km rounded to the nearest 10 000 is 260 000km

255 572km rounded to the nearest 100 000 is 300 000km

Which one would you use if you told a friend how far you travelled?



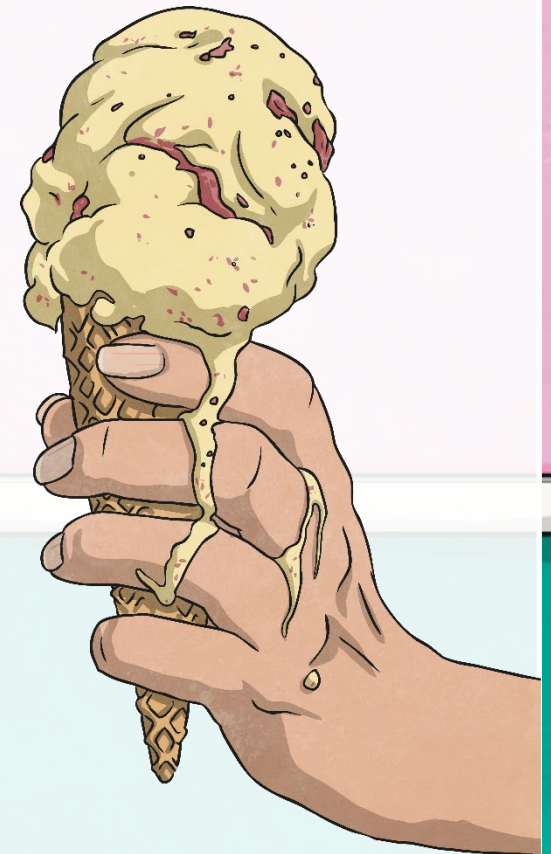
Answers

An ice cream company sells 334 678 lollies and 127 936 cones in a year.  
How many lollies and cones were sold altogether, to the nearest 10 000  
and 100 000?

$$334\ 678 + 127\ 936 = 462\ 614$$

462 rounded to the nearest 10 000 is 460 000

462 rounded to the nearest 100 000 is 500 000



Answers



A delivery driver travels 35 600km each month. How far will the driver travel in one year, to the nearest 10 000km and nearest 100 000km?

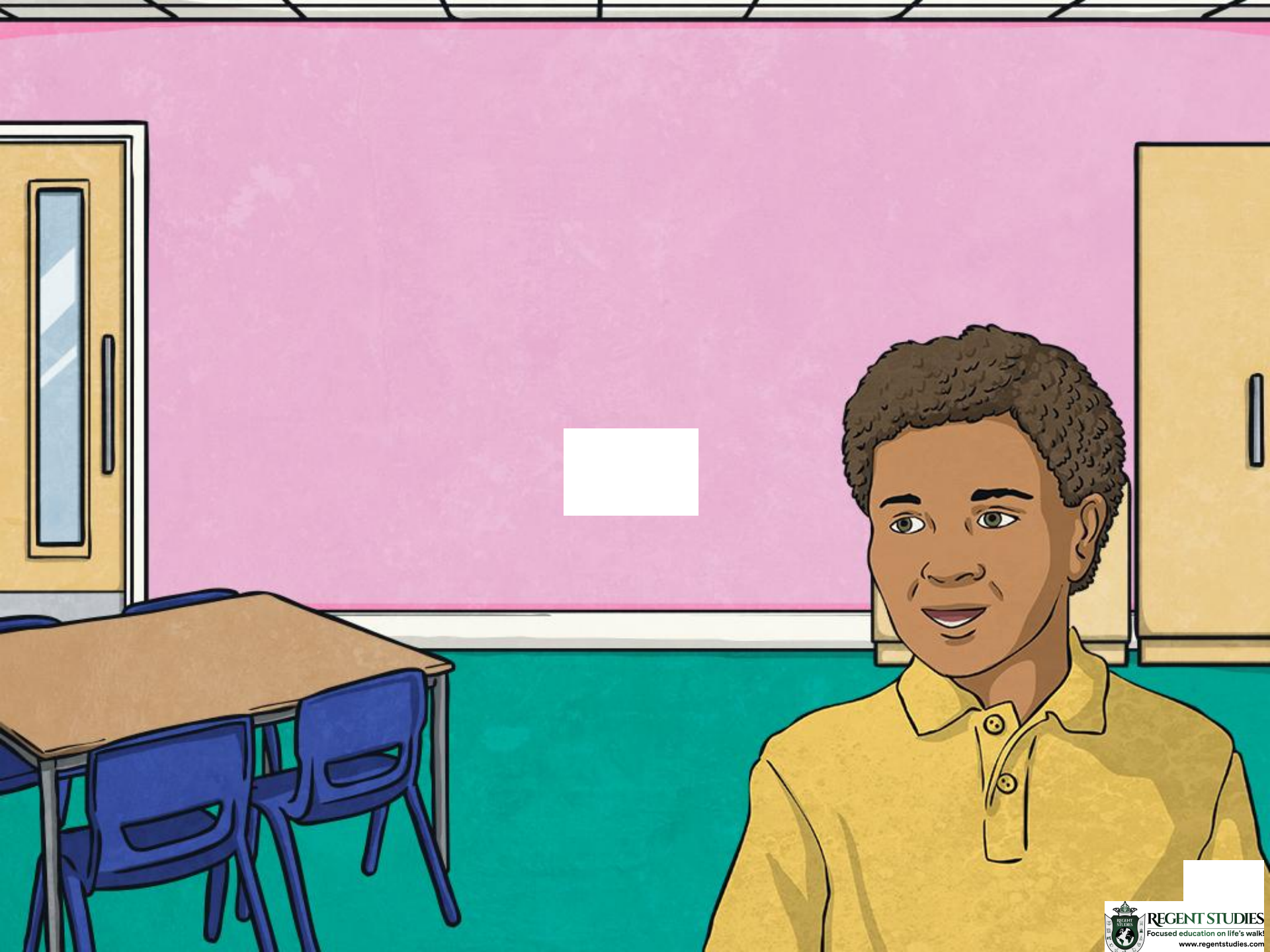
$$35\ 600 \times 12 = 427\ 200$$

427 200km rounded to the nearest 10 000 is 430 000km

427 200km rounded to the nearest 100 000 is 400 000km



Answers

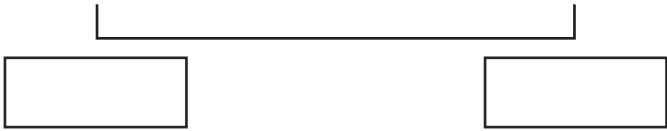


# The Nearest 10 000

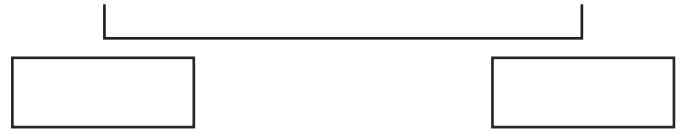
Learning Intention: To round to the nearest 10 000.

Write the ten thousands either side of the given number and mark it approximately on the number line. Then circle the 10 000 to which the given number is closer. Remember 5 (5000) goes up.

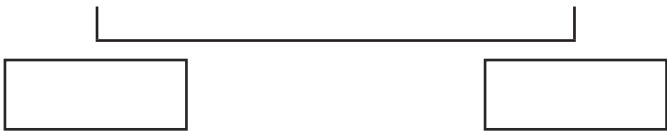
a) 43 930



b) 67 509



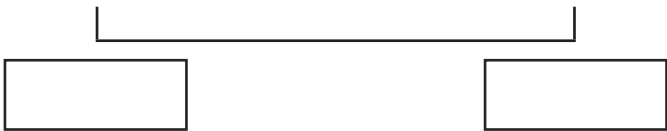
c) 30 591



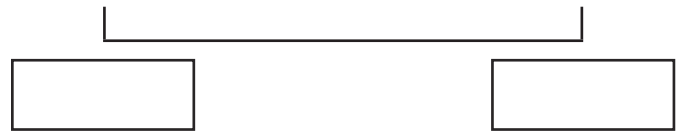
d) 45 662



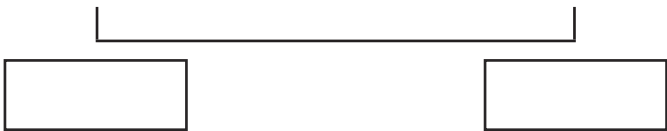
e) 89 014



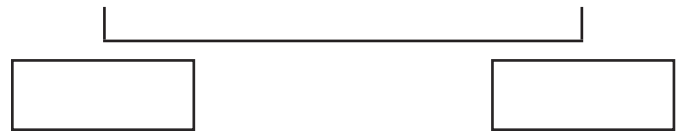
f) 12 300



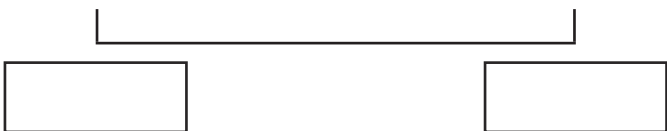
g) 24 677



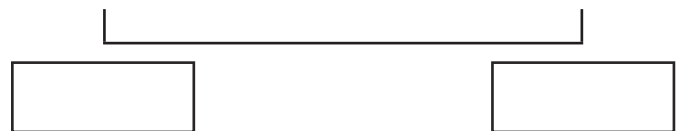
h) 476 545



i) 135 314



j) 270 013



k) 349 718



l) 455 450



Round the following numbers to the nearest 10 000.

16 023 →	120 532 →	195 870 →
27 467 →	244 665 →	200 287 →
49 501 →	315 500 →	375 828 →
62 090 →	455 838 →	199 777 →
76 327 →	626 112 →	471 727 →
92 105 →	731 008 →	999 300 →

Round the following populations to the nearest 10 000.

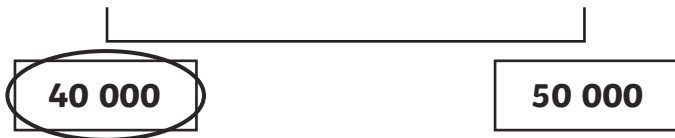
Places	Population	to the nearest 10 000
Iceland	317 900	
Bahamas	346 000	
Malta	416 333	
Samoa	179 000	
Maldives	314 000	
Solomon Islands	536 000	
Guyana	761 000	
Cyprus	801 851	
Fiji	845 000	

# The Nearest 10 000 Answers

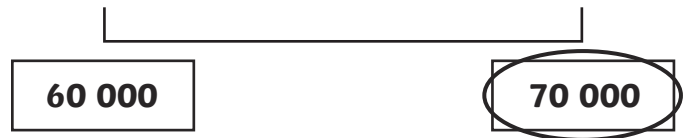
Learning Intention: To round to the nearest 10 000.

Write the ten thousands either side of the given number and mark it approximately on the number line. Then circle the 10 000 to which the given number is closer. Remember 5 (5000) goes up.

a) 43 930



b) 67 509



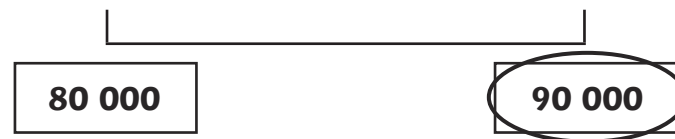
c) 30 591



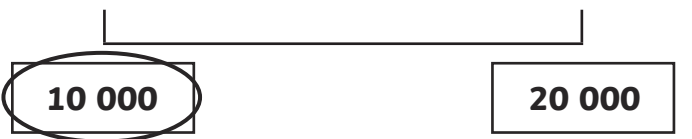
d) 45 662



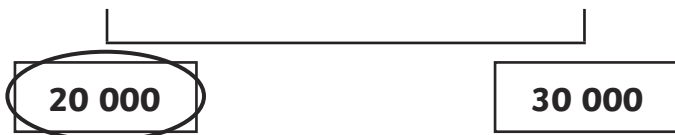
e) 89 014



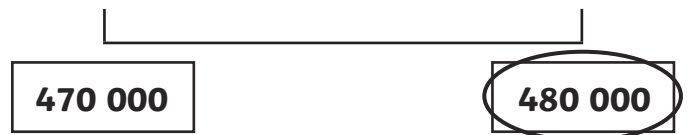
f) 12 300



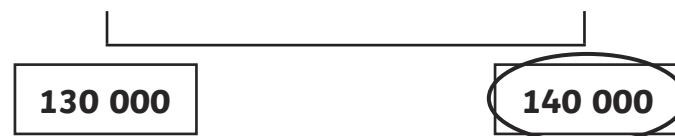
g) 24 677



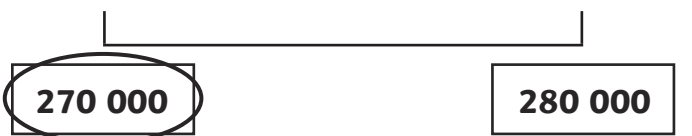
h) 476 545



i) 135 314



j) 270 013



k) 349 718



l) 455 450



Round the following numbers to the nearest 10 000.

16 023 → <b>20 000</b>	120 532 → <b>120 000</b>	195 870 → <b>200 000</b>
27 467 → <b>30 000</b>	244 665 → <b>240 000</b>	200 287 → <b>200 000</b>
49 501 → <b>50 000</b>	315 500 → <b>320 000</b>	375 828 → <b>380 000</b>
62 090 → <b>60 000</b>	455 838 → <b>460 000</b>	199 777 → <b>200 000</b>
76 327 → <b>80 000</b>	626 112 → <b>630 000</b>	471 727 → <b>470 000</b>
92 105 → <b>90 000</b>	731 008 → <b>730 000</b>	999 300 → <b>1 000 000</b>

Round the following populations to the nearest 10 000.

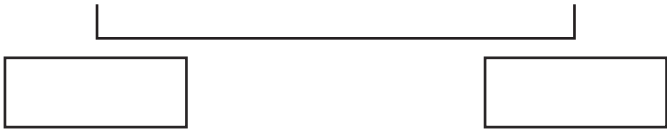
<b>Places</b>	<b>Population</b>	<b>to the nearest 10 000</b>
Iceland	317 900	<b>320 000</b>
Bahamas	346 000	<b>350 000</b>
Malta	416 333	<b>420 000</b>
Samoa	179 000	<b>180 000</b>
Maldives	314 000	<b>310 000</b>
Solomon Islands	536 000	<b>540 000</b>
Guyana	761 000	<b>760 000</b>
Cyprus	801 851	<b>800 000</b>
Fiji	845 000	<b>850 000</b>

# The Nearest 100 000

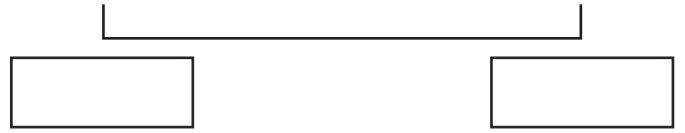
Learning Intention: To round to the nearest 100 000.

Write the hundred thousands either side of the given number and mark it approximately on the number line. Then circle the 100 000 to which the given number is closer. Remember 5 (50 000) goes up.

a) 302 456



b) 745 900



c) 201 489



d) 485 200



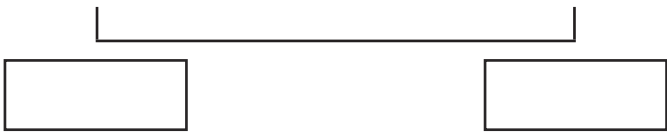
e) 350 891



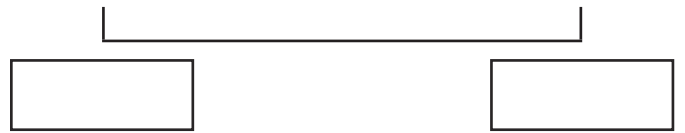
f) 120 780



g) 540 400



h) 267 080



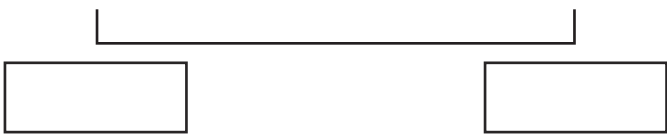
i) 782 000



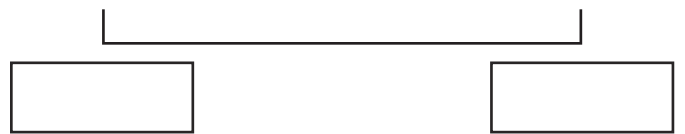
j) 932 910



k) 590 800



l) 976 302



Round the following numbers to the nearest 100 000.

116 023 →	195 870 →
527 467 →	900 287 →
419 501 →	375 828 →
572 090 →	199 777 →
736 327 →	571 727 →
852 105 →	999 300 →

Round the following populations to the nearest 100 000.

Places	Population	to the nearest 100 000
Iceland	317 900	
Bahamas	346 000	
Malta	416 333	
Samoa	179 000	
Maldives	314 000	
Solomon Islands	536 000	
Guyana	761 000	
Cyprus	801 851	
Fiji	845 000	

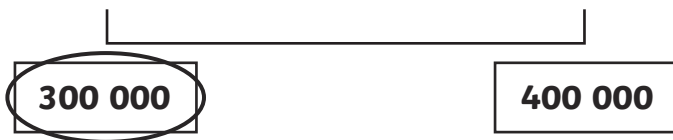


# The Nearest 100 000 Answers

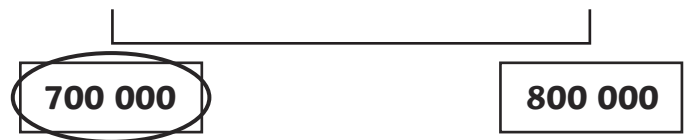
Learning Intention: To round to the nearest 100 000.

Write the ten thousands either side of the given number and mark it approximately on the number line. Then circle the 100 000 to which the given number is closer. Remember 5 (50 000) goes up.

a) 302 456



b) 745 900



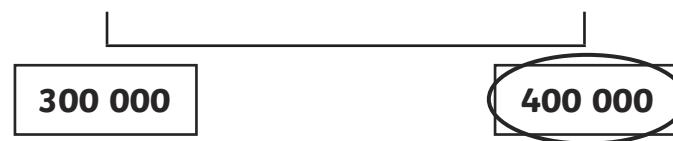
c) 201 489



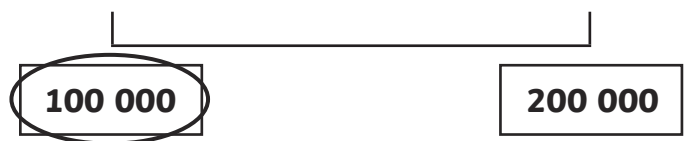
d) 485 200



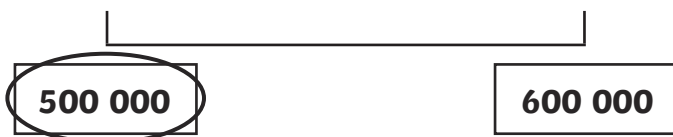
e) 350 891



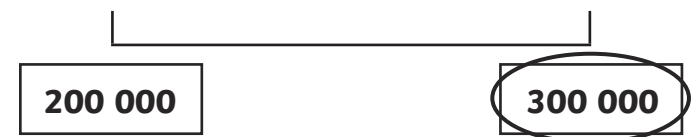
f) 120 780



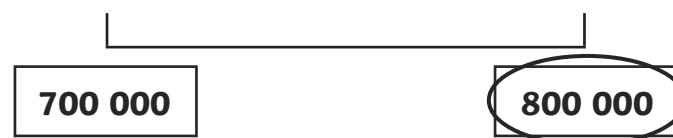
g) 540 400



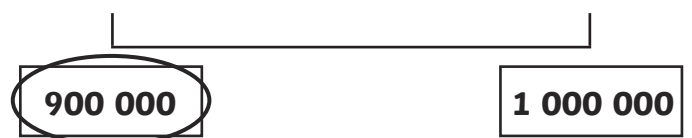
h) 267 080



i) 782 000



j) 932 910



k) 590 800



l) 976 302



Round the following numbers to the nearest 100 000.

116 023 → <b>100 000</b>	195 870 → <b>200 000</b>
527 467 → <b>500 000</b>	900 287 → <b>900 000</b>
419 501 → <b>400 000</b>	375 828 → <b>400 000</b>
572 090 → <b>600 000</b>	199 777 → <b>200 000</b>
736 327 → <b>700 000</b>	571 727 → <b>600 000</b>
852 105 → <b>900 000</b>	999 300 → <b>1 000 000</b>

Round the following populations to the nearest 100 000.

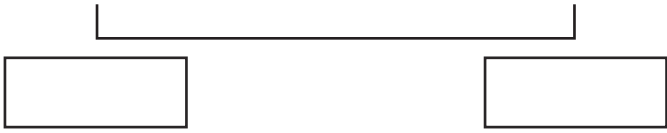
<b>Places</b>	<b>Population</b>	<b>to the nearest 100 000</b>
Iceland	317 900	<b>300 000</b>
Bahamas	346 000	<b>300 000</b>
Malta	416 333	<b>400 000</b>
Samoa	179 000	<b>200 000</b>
Maldives	314 000	<b>300 000</b>
Solomon Islands	536 000	<b>500 000</b>
Guyana	761 000	<b>800 000</b>
Cyprus	801 851	<b>800 000</b>
Fiji	845 000	<b>800 000</b>

# The Nearest 1000

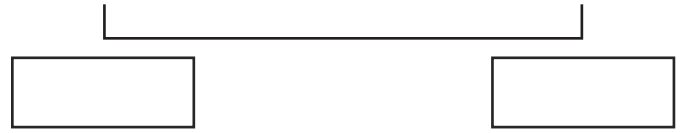
Learning Intention: To round to the nearest 1000.

Write thousands either side of the given number and mark it approximately on the number line. Then circle the 1000 to which the given number is closer. Remember 5 (500) goes up.

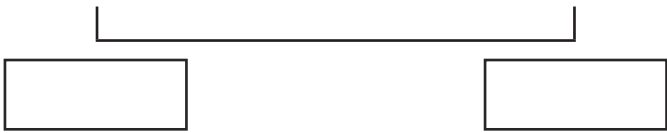
a) 2670



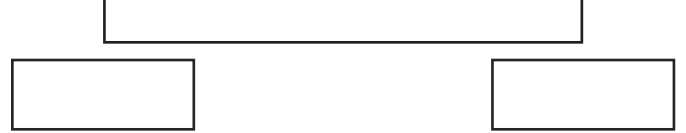
b) 24 677



c) 4122



d) 46 545



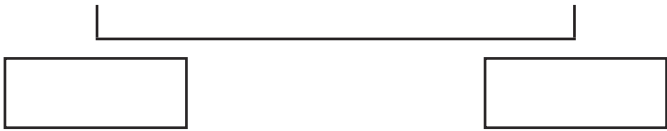
e) 3091



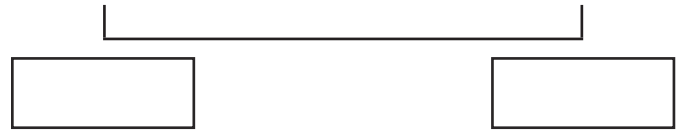
f) 134 304



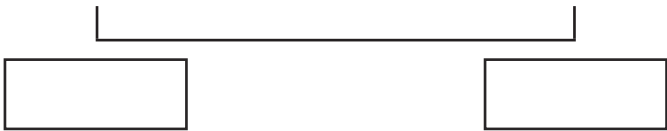
g) 4562



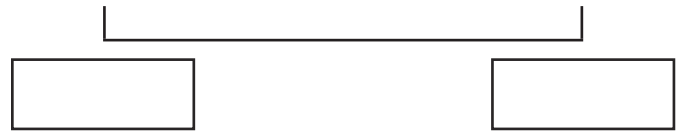
h) 270 013



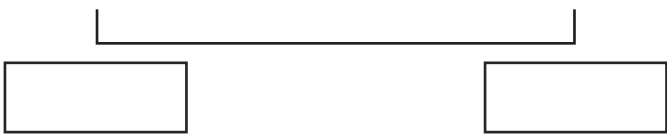
i) 8914



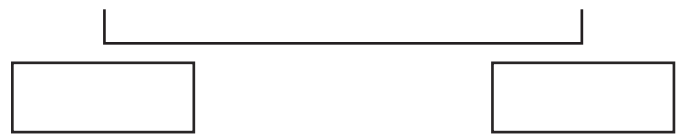
j) 342 708



k) 12 300



l) 450 450



Round the following numbers to the nearest 1000.

1804 →	12 532 →	190 870 →
2398 →	24 665 →	207 207 →
7804 →	31 500 →	345 828 →
2398 →	45 838 →	199 666 →
2502 →	66 112 →	451 727 →
2398 →	71 008 →	999 700 →

Round the following numbers to the nearest 1000km.

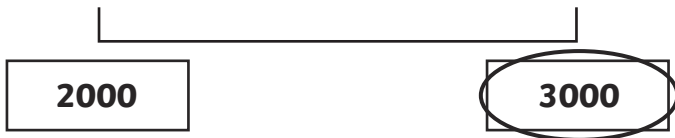
Places	Distance	to the nearest 1000km
London to New York	5540km	
Rio De Janeiro to Madrid	8140km	
Cape Town to Rome	8450km	
Perth to Sydney	3300km	
Beijing to Washington	11 200km	
Boston to Delhi	11 500km	
Buenos Aires to Berlin	11 900km	
Christchurch to Paris	19 100km	
Earth to the Moon	384 403km	

# The Nearest 1000 Answers

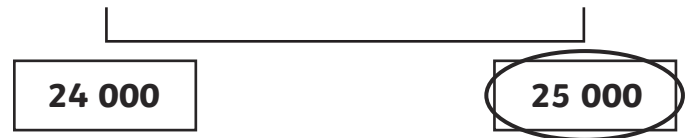
Learning Intention: To round to the nearest 1000.

Write thousands either side of the given number and mark it approximately on the number line. Then circle the 1000 to which the given number is closer. Remember 5 (500) goes up.

a) 2670



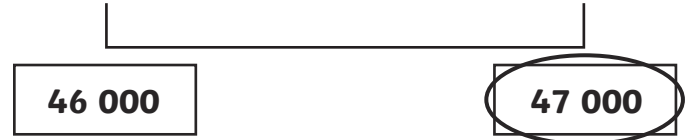
b) 24 677



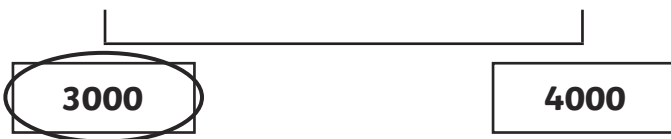
c) 4122



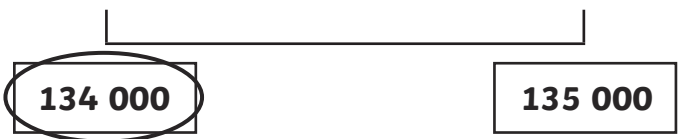
d) 46 545



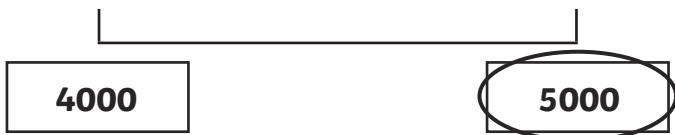
e) 3091



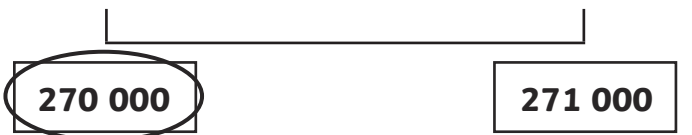
f) 134 304



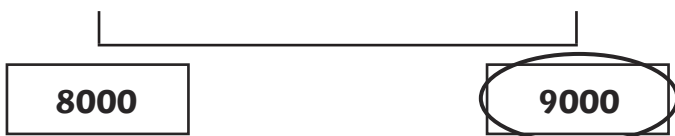
g) 4562



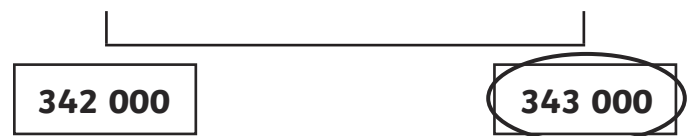
h) 270 013



i) 8914



j) 342 708



k) 12 300



l) 450 450



Round the following numbers to the nearest 1000.

1804 → <b>2000</b>	12 532 → <b>13 000</b>	190 870 → <b>191 000</b>
2398 → <b>2000</b>	24 665 → <b>25 000</b>	207 207 → <b>207 000</b>
7804 → <b>8000</b>	31 500 → <b>32 000</b>	345 828 → <b>346 000</b>
2398 → <b>2000</b>	45 838 → <b>46 000</b>	199 666 → <b>200 000</b>
2502 → <b>3000</b>	66 112 → <b>66 000</b>	451 727 → <b>452 000</b>
2398 → <b>2000</b>	71 008 → <b>71 000</b>	999 700 → <b>1 000 000</b>

Round the following numbers to the nearest 1000km.

<b>Places</b>	<b>Distance km</b>	<b>to the nearest 1000km</b>
London to New York	5540	<b>6000</b>
Rio De Janeiro to Madrid	8140	<b>8000</b>
Cape Town to Rome	8450	<b>8000</b>
Perth to Sydney	3300	<b>3000</b>
Beijing to Washington	11 200	<b>11 000</b>
Boston to Delhi	11 500	<b>12 000</b>
Buenos Aires to Berlin	11 900	<b>12 000</b>
Christchurch to Paris	19 100	<b>19 000</b>
Earth to the Moon	384 403	<b>384 000</b>

# Rounding to the Nearest 10 000 or 100 1000

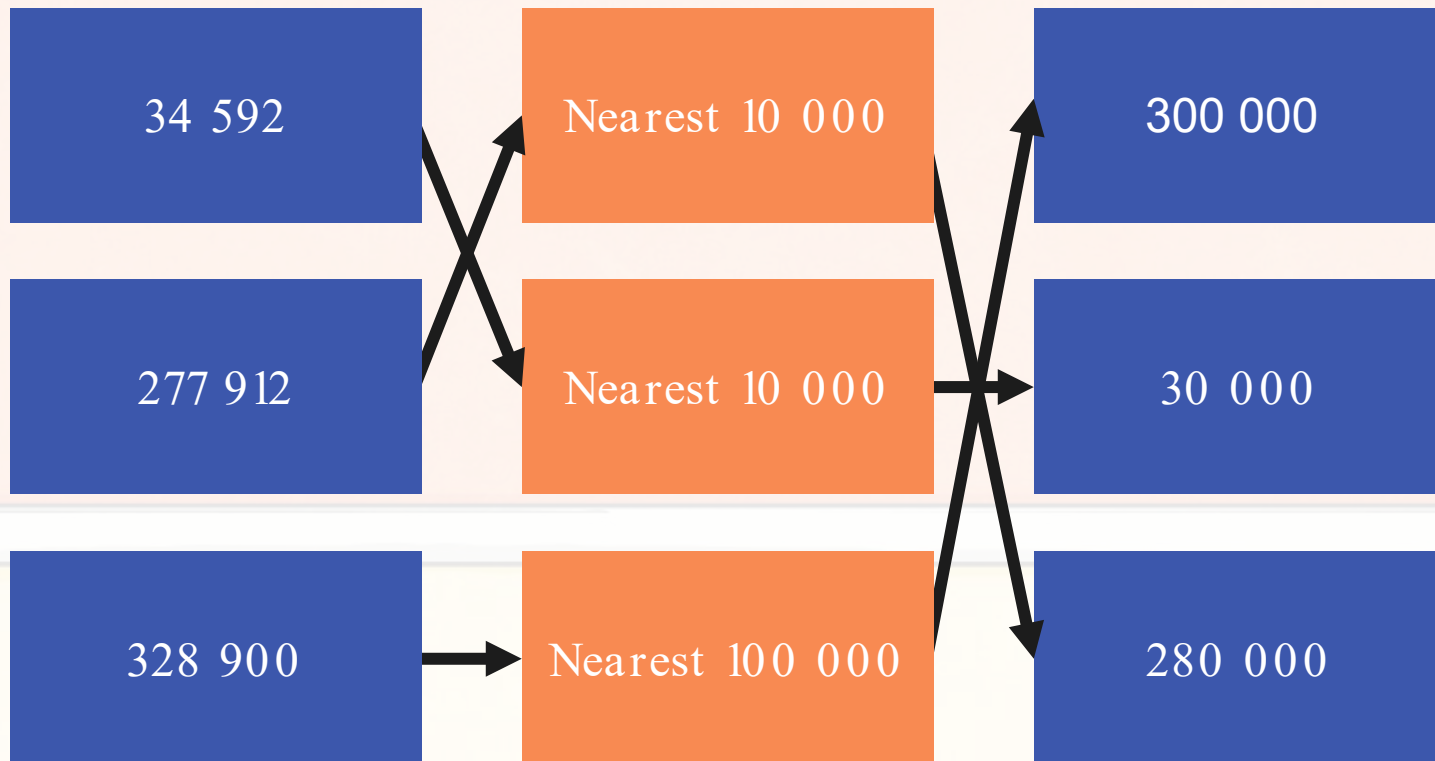


# Learning Intention

- To round to the nearest 10 000 or 100 000.



Draw arrows to link the number, by what it is rounded and the number to which it is rounded:



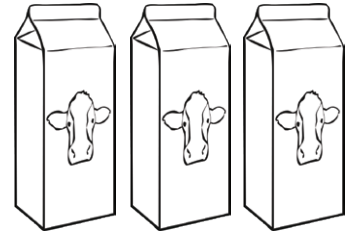


# The Nearest 10 000 and 100 000

Learning Intention: To solve word problems (with rounding).

Solve the following word problems, rounding the answer as instructed.

1. A supermarket sells 143 687 litres of milk in one months.  
How many litres is this to the nearest 10 000 and nearest 100 000?



2. There are 487245 spectators at all the Premier League football matches on a Saturday.  
How many is this to the nearest 10 000 and nearest 100 000?

3. A newspaper reports that around 160 000 people attended a parade.  
How is this rounded and what is the range of the precise attendance?



4. 529 876 adults and 225 621 children visit a zoo in one year.  
To the nearest 10 000 and nearest 100 000, how many people visit the zoo altogether?

5. A supermarket has 534 348 tins of tomatoes at a distribution centre.  
It sends out 67 782 in one shipment. To the nearest 10 000, how many will be left?



6. A call centre receives about 75 000 calls per day.  
To the nearest 10 000, how many calls does it receive in a working week (5 days)?

7. A swimming pool has 324 923 swimmers in the main pool and 591 023 swimmers in the leisure pool in one year. To the nearest 100 000, how many swimmers do both pools get over the whole year?

8. A lorry driver travels 256 349 miles in one year, and 289 012 miles in the following year. To the nearest 10 000 and 100 000, how many miles does the driver travel in both years?

### Challenge

What happens if you round the numbers in questions 4 onwards, then calculate the answers?

# The Nearest 10 000 and 100 000

## Answers

Solve the following word problems, rounding the answer as instructed.

1. A supermarket sells 143 687 litres of milk in one months.  
How many litres is this to the nearest 10 000 and nearest 100 000?

**140 000**

**100 000**

2. There are 487245 spectators at all the Premier League football matches on a Saturday.  
How many is this to the nearest 10 000 and nearest 100 000?

**490 000**

**50 000**

3. A newspaper reports that around 160 000 people attended a parade.  
How is this rounded and what is the range of the precise attendance?

**Nearest 10 000, 155 000 to 164 000**

4. 529 876 adults and 225 621 children visit a zoo in one year.  
To the nearest 10 000 and nearest 100 000, how many people visit the zoo altogether?

**760 000**

**800 000**

5. A supermarket has 534 348 tins of tomatoes at a distribution centre.  
It sends out 67 782 in one shipment. To the nearest 10 000, how many will be left?

**470 000**

6. A call centre receives about 75 000 calls per day.  
To the nearest 10 000, how many calls does it receive in a working week (5 days)?

**380 000**

7. A swimming pool has 324 923 swimmers in the main pool and 591 023 swimmers in the leisure pool in one year. To the nearest 100 000, how many swimmers do both pools get over the whole year?

**900 000**

8. A truck driver travels 256 349 miles in one year, and 289 012 miles in the following year. To the nearest 10 000 and 100 000, how many miles does the driver travel in both years?

**550 000**

**500 000**

### **Challenge**

What happens if you round the numbers in questions 4 onwards, then calculate the answers?

**The answer changes.**